

FORM PTO-1449 (Rev 8/83)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		Atty. Docket No.:	Appl'n No.:
				MP1454-US10	10/721,478
				Applicant:	
				Graves et al.	
				Filing Date:	Group:
				Nov. 25, 2003	2832

INFORMATION DISCLOSURE STATEMENT

Use several sheets if necessary)

CANCELLLED

US PATENT DOCUMENTS

* Exr. initial	Document number	Date	Name	Class	Sub-class
08/1	2,482,316	09/20/1949	Bocking	338	118
	3,221,145	11/30/1965	Hager, Jr.	219	549
	3,351,882	11/07/1967	Kohler et al.	338	322
	3,435,399	03/25/1969	Gielisse et al.	338	22R
	3,497,859	02/24/1970	Bang	338	309
	3,648,364	03/14/1972	Endo	29	620
	3,775,725	11/27/1973	Endo	338	262
	3,835,434	09/10/1974	Kahn	338	22R
	4,088,828	05/09/1978	Yamamoto et al.	174	263
	4,200,970	05/06/1980	Schonberger	29	593
	4,237,441	12/02/1980	van Konynenburg et al	338	22R
	4,238,812	12/09/1980	Middleman et al	361	106
	4,255,698	03/10/1981	Simon	320	35
	4,272,471	06/09/1981	Walker	264	104
	4,304,987	12/08/1981	van Konynenburg	219	553
	4,315,237	02/09/1982	Middleman et al	338	22 R
	4,317,027	02/23/1982	Middleman et al	219	553
	4,327,351	04/27/1982	Walker	338	22R
	4,330,703	05/18/1982	Horsma et al	219	553
	4,352,083	09/28/1982	Middleman et al	338	23
	4,371,860	02/01/1983	May et al.	338	21
	4,388,607	06/14/1983	Toy et al	338	22 SD
	4,426,633	01/17/1984	Taylor	338	25
	4,434,416	02/28/1984	Schonberger	338	203
	4,445,026	04/24/1984	Walker	219	553
	4,463,407	07/31/1984	Berger et al.	361	306.1
	4,475,138	10/02/1984	Middleman et al	361	58
	4,486,737	12/04/1984	Ott	338	22R
	4,486,738	12/04/1984	Sadlo et al.	338	320
	4,514,620	04/30/1985	Cheng et al	219	553
	4,529,960	07/16/1985	Uchida et al.	338	309
08/1	4,534,889	08/13/1985	van Konynenburg et al	252	511

TU HOANG

Examiner's signature

10/16/06

Date considered

* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Rev 8/83)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Atty. Docket No.: <u>MP1454-US10</u>	Appl'n No.: <u>10/721,478</u>
INFORMATION DISCLOSURE STATEMENT		Applicant: <u>Graves et al.</u>	
(Use several sheets if necessary)		Filing Date: <u>Nov. 25, 2003</u>	Group: <u>2832</u>

US PATENT DOCUMENTS (continued)

<u>COOL</u>	4,545,926	10/08/1985	Fouts et al	252	511
	4,560,498	12/24/1985	Horsma et al	252	511
	4,591,700	05/27/1986	Sopory	219	505
	4,593,181	06/03/1986	Jensen et al.	219	541
	4,605,471	08/12/1986	Mitchell	216	18
	4,660,017	04/21/1987	Momoki et al.	338	21
	4,689,475	08/25/1987	Kleiner et al.	219	553
	4,706,060	11/10/1987	May	338	20
	4,714,910	12/22/1987	Schwingenschuh et al.	338	21
	4,724,417	02/09/1988	Au et al	338	22 R
	4,757,298	07/12/1988	Nishikawa et al.	338	308
	4,757,581	07/19/1988	Yamada et al.	29	25.35
	4,774,024	09/27/1988	Deep et al	252	511
	4,777,718	10/18/1988	Henderson et al.	338	312X
	4,780,598	10/25/1988	Fahey et al	219	511
	4,786,888	11/22/1988	Yoneda et al.	338	22R
	4,788,523	11/29/1988	Robbins	338	309
	4,800,253	01/24/1989	Kleiner et al	219	553
	4,801,784	01/31/1989	Jensen et al.	338	22 R
	4,811,164	03/07/1989	Ling et al.	361	321
	4,845,838	07/11/1989	Jacobs et al	29	671
	4,861,966	08/29/1989	Matthiesen et al.	219	205
	4,873,508	10/10/1989	Ankenman et al.	338	25
	4,876,439	10/24/1989	Nagahori	338	22 R
	4,882,466	11/21/1989	Friel	219	219
	4,904,850	02/27/1990	Claypool et al.	219	548
	4,907,340	03/13/1990	Fang et al.	29	610.1
	4,924,074	05/08/1990	Fang et al.	219	548
	4,924,204	05/08/1990	Uchida	338	22 R
	4,924,205	05/08/1990	Caporali et al.	338	227
	4,935,156	06/19/1990	van Konynenburg et al.	219	553
	4,937,551	06/26/1990	Plasko	338	22R
	4,959,505	09/25/1990	Ott	174	52.2
<u>COOL</u>	4,977,309	12/11/1990	Uchida	219	541

TU HOANG
Examiner's signature

10/16/02
Date considered

* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Rev 8/83)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Atty. Docket No.: MP1454-US10	Appl'n No.: 10/721,478
INFORMATION DISCLOSURE STATEMENT		Applicant: Graves et al.	
(Use several sheets if necessary)		Filing Date: Nov. 25, 2003	Group: 2832

US PATENT DOCUMENTS(continued)

<i>(05)</i>	4,992,771	02/12/1991	Caporali et al.	338	22R
	4,993,142	02/19/1991	Burke et al.	29	621
	5,015,824	05/14/1991	Monter et al.	219	219
	5,017,243	05/21/1991	Otsubo	136	244
	5,049,850	09/17/1991	Evans et al.	338	22R
	5,057,811	10/15/1991	Strott et al.	338	22R
	5,085,364	02/04/1992	Ishikawa et al.	228	139
	5,089,801	02/18/1992	Chan et al.	338	22R
	5,142,263	08/25/1992	Childers et al	338	21
	5,194,316	03/16/1993	Horner et al	428	195
	5,196,136	03/23/1993	Dishart et al	252	170
	5,210,516	05/11/1993	Shikama et al	338	22R
	5,212,466	05/18/1993	Yamada et al.	338	22R
	5,216,404	06/01/1993	Nagai et al.	338	22SD
	5,228,188	07/20/1993	Badihi et al	29	623
	5,241,741	09/07/1993	Sugaya	29	612
	5,247,277	09/21/1993	Fang et al.	338	22R
	5,258,738	11/02/1993	Schat	338	332
	5,271,548	12/21/1993	Maiwald	228	175
	5,280,263	01/18/1994	Sugaya	338	22 R
	5,291,535	03/01/1994	Baker et al	378	22
	5,303,115	04/12/1994	Nayar et al.	361	106
	5,347,258	09/13/1994	Howard et al.	338	333
	5,351,390	10/04/1994	Yamada et al.	29	612
	5,451,921	09/19/1995	Crawford et al.	338	220
<i>(05)</i>	5,831,510	11/03/1998	Zhang et al	338	22R

FOREIGN PATENT DOCUMENTS

* Exr. initial	Document number	Date	Country	Class	Sub-class
<i>(05)</i>	0 223 404	05/27/1987	Europe	H05B	3/10
	0 308 306	03/22/1989	Europe	H01C	1/14
	0 398 811	11/22/1990	Europe	H01C	1/14
	0 509 582	10/21/1992	Europe	H01C	7/00
<i>(05)</i>	0 649 562	03/04/1998	Europe	H01C	1/14

TU HOANG
Examiner's signature

10/16/06
Date considered

* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Rev 8/83)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Atty. Docket No.: MP1454-US10	Appl'n No.: 10/721,478
INFORMATION DISCLOSURE STATEMENT		Applicant: Graves et al.	
(Use several sheets if necessary)		Filing Date: Nov. 25, 2003	Group: 2832

FOREIGN PATENT DOCUMENTS (continued)

CBV	28 16 593	10/18/1979	Germany	H01C	7/02
	31 22 612	12/23/1982	Germany	H01C	17/06
	87 16 103	03/03/1988	Germany	G01K	7/16
	38 39 868	06/08/1989	Germany	H01C	7/02
	39 10 861	11/02/1989	Germany	H01C	1/14
	40 00 089	07/12/1990	Germany	H01L	31/0224
	1,415,454	11/26/1975	United Kingdom	H05K	7/10
	WO 84/01259	03/29/1984	International	H05K	13/00
	WO 94/01876	01/20/1994	International	H01C	1/14
	WO 95/08176	03/23/1995	International	H01C	1/14
	WO 95/31816	11/23/1995	International	H01C	1/14
	49-28594	08/03/1974	Japan	H01C	7/02
	54-73260	06/12/1979	Japan	H01C	7/00
	56-150802	11/21/1981	Japan	H01C	7/02
	61-124104	06/11/1986	Japan	H01C	7/10
	63-216301	09/08/1988	Japan	H01C	7/02
	63-244702	10/12/1988	Japan	H01C	7/02
CBV	5-29111	02/05/1993	Japan	H01C	7/12

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

Exr. initial	Details of Document
CBV	Coombs, Printed Circuit Handbook, 1996, p. 24.1-24.17.
	Harper, Electronic Packaging and Interconnection Handbook (1991), p. 1.37-1.43, 8.3-8.5, 8.53-8.56, 9.1-9.16, 9.41-9.49.
	Standler, Protection of Electronic Circuits from Overvoltages, 1989, p. 133.
	U.S. patent application Ser. No. 07/893626 (Chandler et al.), filed Jun. 5, 1992.
	"Protection of Batteries with PolySwitch.RTM. Devices", Raychem Corporation, Jan., 1987.
	Search Report for International Application No. PCT/US93/06480, dated Oct. 7, 1993.
	Search Report for International Application No. PCT/US94/10137, dated Nov. 23, 1994.
	Search Report for International Application No. PCT/US95/05567, dated Jun. 26, 1995.
	Search Report for International Application No. PCT/US95/07420, dated Sep. 4, 1995.
	"PolySwitch PTC Devices, Standard Product List", Raychem Corporation, May 1992.
	"PolySwitch SMD Surface Mount devices PTC overcurrent protection" trade brochure, Raychem Corporation, Nov. 1992.
CBV	"PolySwitch SMD Installation Guidelines" trade brochure, Raychem Corporation, Nov. 1992.

TU HOANG

Examiner's signature

10/16/06

Date considered

* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.